Teacher Notes– THE CINEMA CHAIN PART A

Scenario

You have been asked to create a database for the East Berkshire Cinema Multiplex. Currently all records are stored on a spreadsheet.

The Cinema would like to be able to store and report data on how the cinema is used. The cinema has two screens, one has 500 seats, the other has 400 seats.

The cinema has several films showing and it records the different types of film.

Films belong to categories U, PG, 12, 15 and 18.

When people go to the cinema booking system they can:

- Pick the screen
- Pick the date of the performance
- Book tickets. The minimum number booked is 1 and the maximum booked is 5
- Pick the seat type – standard seating is £10, Luxury seating is £15, Premium is £20.

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General Information

The activities presented here follow the style of the new 5 hour format for the Unit 2 NEA from Pearson.

This NEA style was created in direct response to the instances of mass cheating and plagiarism that occurred under the old-style assessment where students had 10 hours to work on a single database. What happened was students went online to various forums and shared the question paper and the answers.

To respond to this, Pearson has cut down the NEA to 5 hours.

In Part A students are required to build a database and create some simple queries and reports and carry out testing.

In Part B, students are **GIVEN** a brand new database and are required to create forms for this.

The days and times of the exams are set by Pearson and are no longer at the institution's discretion.

The idea is that is it now impossible for students to share answers online. The downside is that although the amount of material for students to produce in the NEA has been substantially reduced, the course content remains the same.

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Part A - Activity 1

The idea behind the scenario is that:

- A film can have many bookings
- A screen can have many bookings
- A seat type can have many bookings

This implies that there is a central booking table, with three other tables in 1:Many relationships with this one.

Each individual row of the booking table will therefore represent a unique booking of a film, a screen and a seat type.

Some students might want to move the film rating into another table, but this is not necessary, or recommended as the exam instructions state that students can only use the fields supplied. This would involve creating another table and another Primary Key.

This ERD (Entity Relationship Diagram) will assume a 4-table structure. It is entirely possible for other solutions to exist, but the one presented here is the most logical and straightforward.

As these presentations are editable, you have full control of what you present to your students and this should give you a good start to work from. You can add to these presentations of remove content at your will.

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Part A - Activity 2

This should be relatively straightforward.

The key is:

- Getting all

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